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Declass Review by
NIMA/DOD

NPIC/TDS/D-1061-67
10 October 1967

MEMORANDUM FOR THE RECORD

SUBJECT: Report of Trip to [REDACTED]

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1. On 4 October 1967, I made a trip to [REDACTED] to discuss the 15° eyepieces for the Zoom 70 with [REDACTED] and to discuss the problems found in the 13X magnifiers with [REDACTED]. I also returned the fine focus microscope mount to [REDACTED] and left a 13X magnifier with [REDACTED] for modification.

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2. [REDACTED] representative, and myself inspected and discussed the 15° eyepieces for the Zoom 70. The tilted eyepieces have an unacceptable feature in that they rotate the images slightly away from the operator as the inter-pupillary distance is enlarged. [REDACTED] presented alternate approaches to solving this; the most realistic being the addition of a capability to adjust the prisms to compensate for the rotation. [REDACTED] stated, however, that to build the new eyepieces would require a new contract since they feel that the present eyepieces meet the requirement of the existing contract. The production costs of the proposed version of the eyepieces will be about 20% higher than the estimate given for the present 15° eyepieces. I agreed to send [REDACTED] a Zoom 70 which had been fitted for a wide span rhomboid and [REDACTED] would then mount the 15° eyepieces on it and send it back for operational evaluation. The wide span rhomboid has image rotation elements in it which will compensate for the rotation in the eyepieces. Therefore, the eyepieces can be evaluated in this mode operationally.

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3. [REDACTED] met me at his facility and I explained to him the problems encountered in using the [REDACTED] 13X magnifiers. The first problem being that the sharp edges on the reticle retaining ring cause scratches in the film. [REDACTED] would polish off these edges at no cost to the Government. The second problem is parallax, caused by the separation between the reticle and the film. [REDACTED] said that [REDACTED] would investigate several approaches to solving this problem and submit estimates for performing the desired work. I left a 13X magnifier kit with [REDACTED] and he said they would modify it to reduce or eliminate the parallax and then return it for Government approval. No cost to the Government would be involved in modifying the magnifier I left.

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Exploitation Systems Branch, DS/TDS

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